

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P676239

Luminaire Tested: **CCW-SA-2D-722-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676239  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-722-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

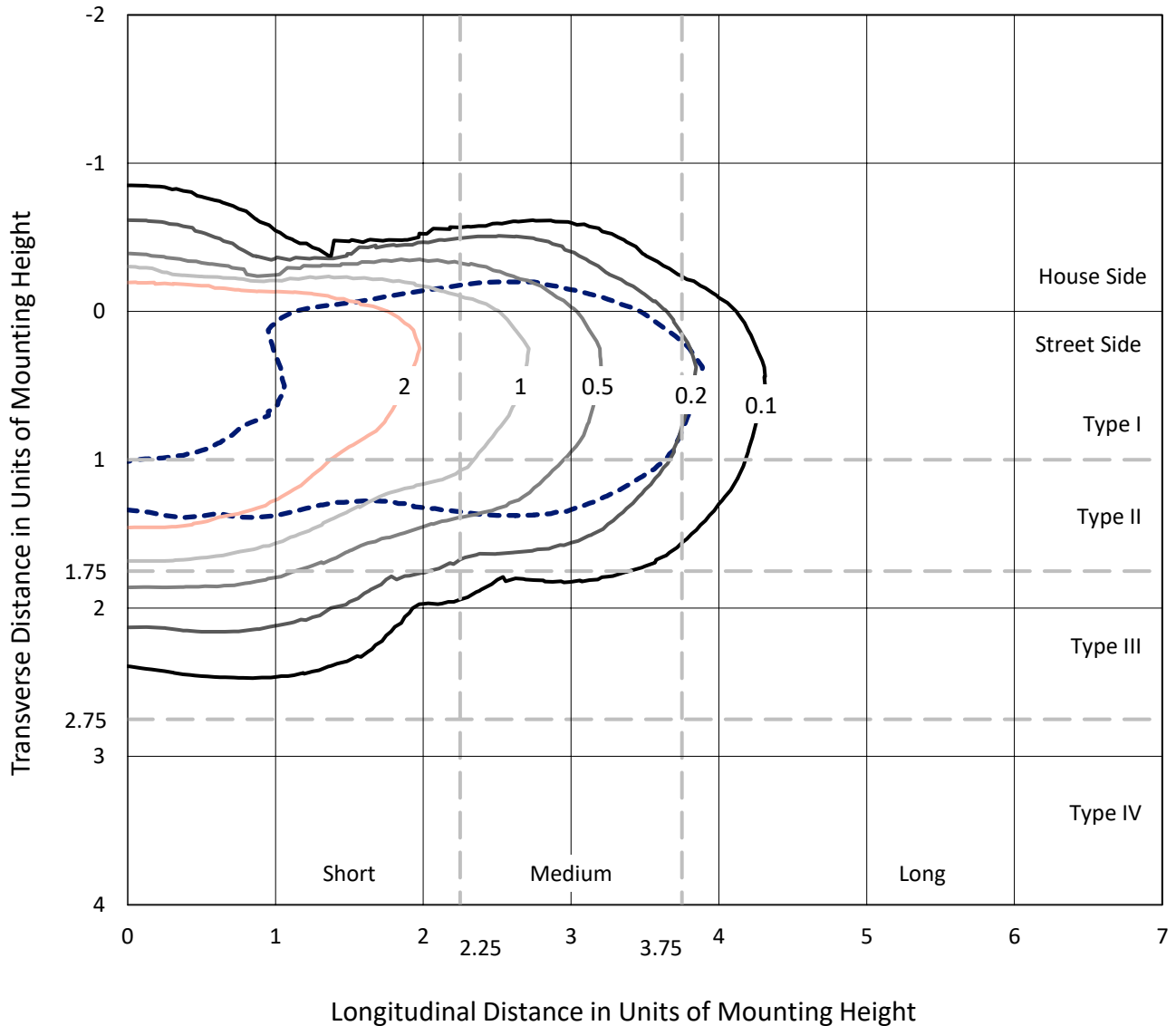
Lumens per Lamp: N/A  
Luminaire Lumens: 6342.4 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

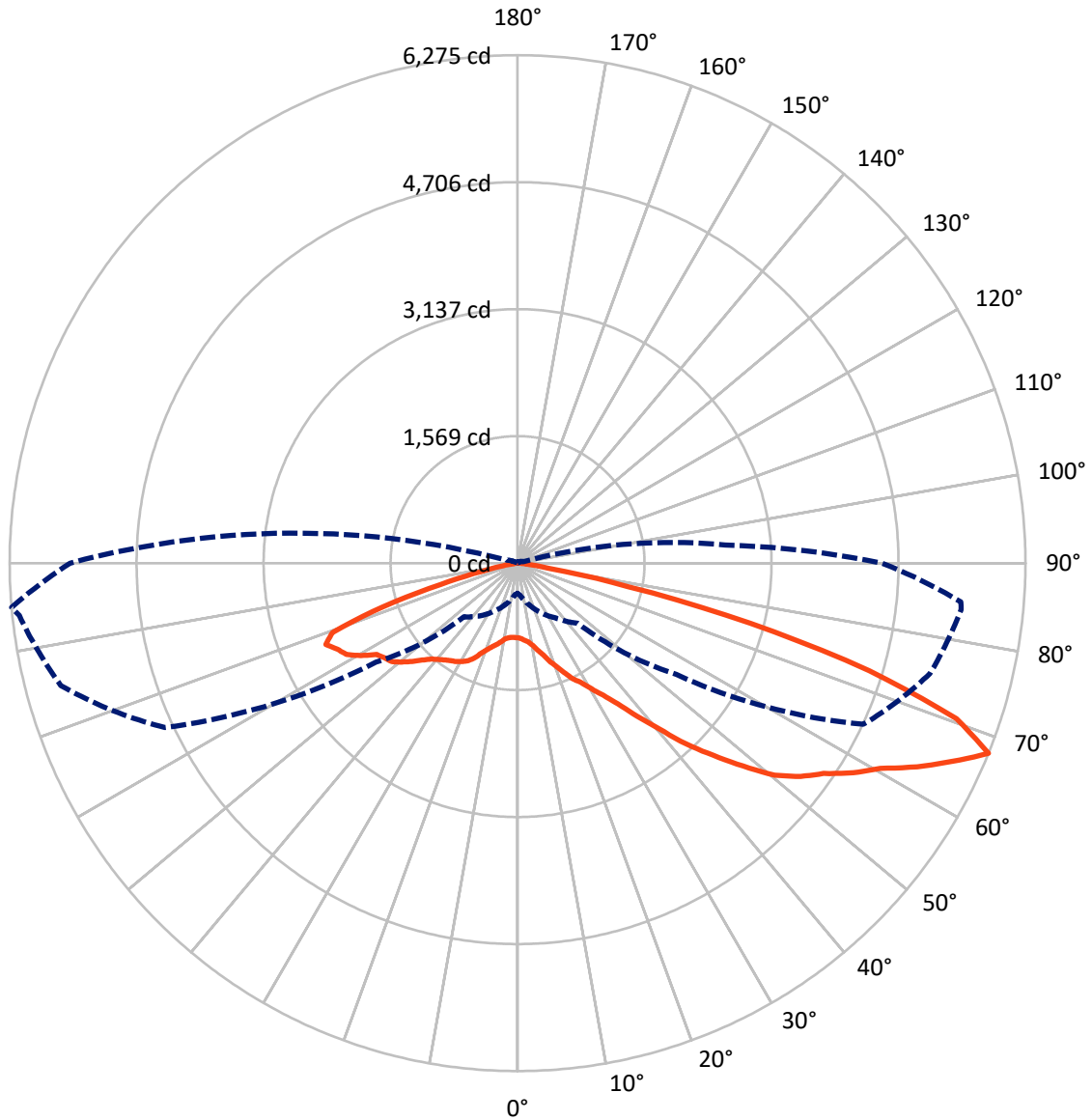
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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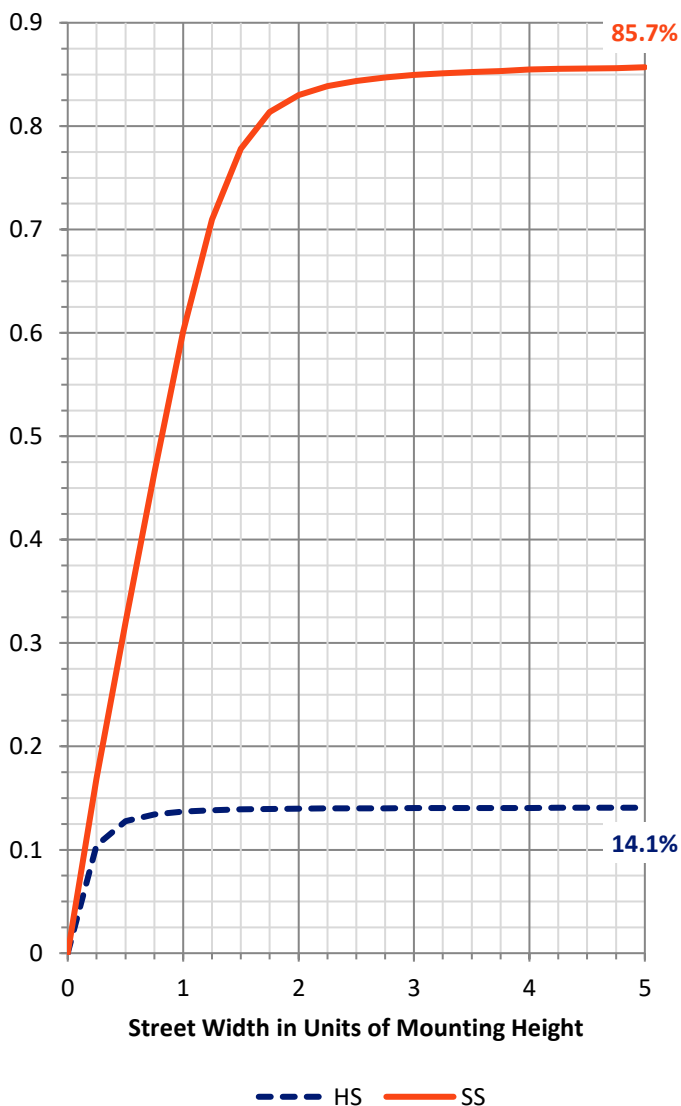
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	901.0	0.0	901.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	5441.4	0.0	5441.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	6342.4	0.0	6342.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	1.3
10°-20°	226.1	3.6
20°-30°	375.6	5.9
30°-40°	646.1	10.2
40°-50°	1161.1	18.3
50°-60°	1653.0	26.1
60°-70°	1507.0	23.8
70°-80°	641.7	10.1
80°-90°	47.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6342.4	100.0
0°-180°	6342.4	100.0



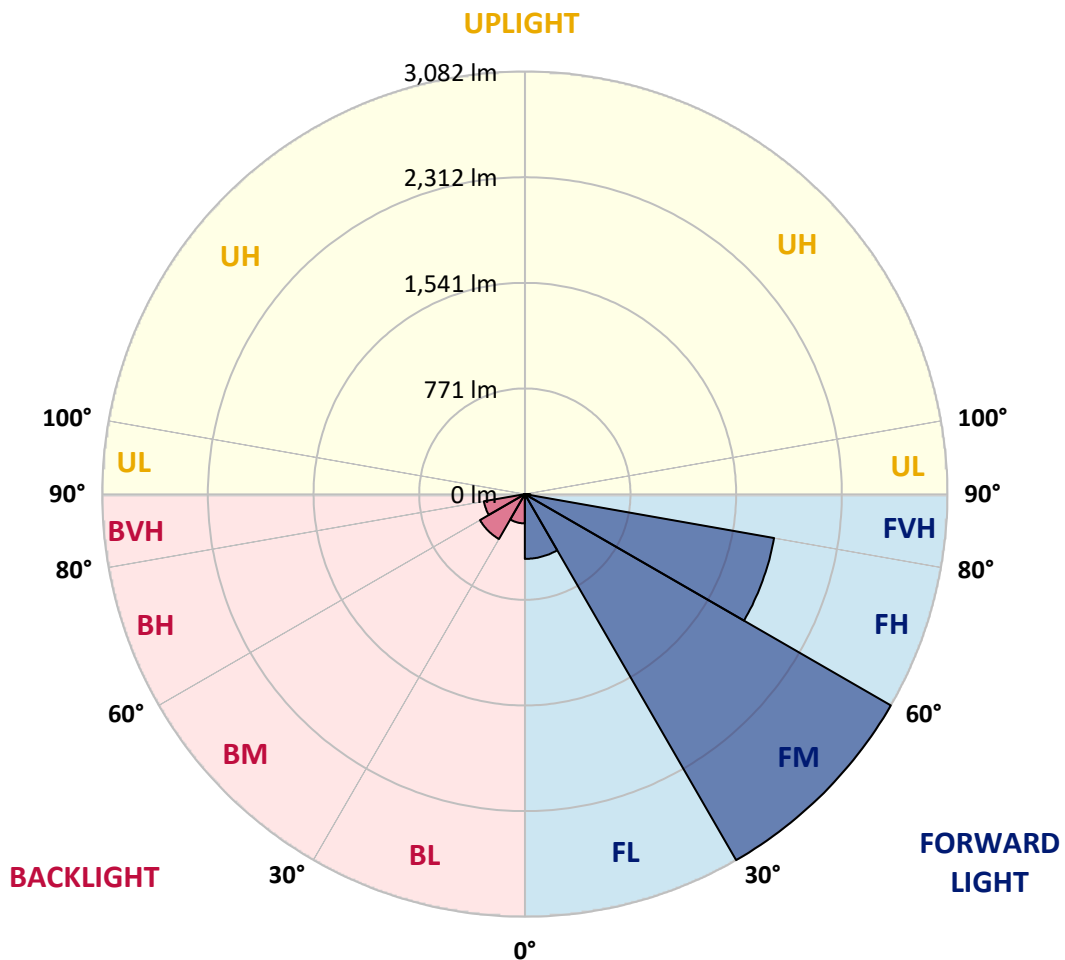
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.5	7.4			
FM (30°-60°)	3082.4	48.6			
FH (60°-80°)	1845.9	29.1			G2/5000
FVH (80°-90°)	40.6	0.6			G1/100
BL (0°-30°)	213.3	3.4	B1/500		
BM (30°-60°)	377.8	6.0	B1/1000		
BH (60°-80°)	302.8	4.8	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	955.5	964.6	964.6	961.6	952.5	946.5	943.4	937.4	931.3	931.3	934.4
5°	964.6	955.5	967.6	952.5	952.5	952.5	964.6	958.6	955.5	940.4	940.4
7.5°	964.6	955.5	955.5	964.6	955.5	961.6	976.7	970.7	982.8	955.5	961.6
10°	937.4	934.4	940.4	952.5	955.5	967.6	982.8	1013.0	1016.0	997.9	994.9
12.5°	883.0	879.9	901.1	907.2	943.4	973.7	1019.0	1043.2	1070.4	1061.4	1043.2
15°	843.7	849.7	864.8	889.0	922.3	976.7	1028.1	1082.5	1130.9	1118.8	1112.8
17.5°	858.8	855.8	858.8	873.9	916.2	970.7	1058.4	1121.9	1191.4	1191.4	1197.4
20°	904.1	913.2	910.2	901.1	922.3	967.6	1058.4	1170.2	1285.1	1276.1	1276.1
22.5°	982.8	985.8	967.6	961.6	958.6	985.8	1076.5	1230.7	1363.8	1381.9	1375.9
25°	1064.4	1067.4	1061.4	1043.2	1019.0	1025.1	1109.8	1279.1	1472.6	1502.9	1496.8
27.5°	1200.5	1197.4	1182.3	1161.2	1124.9	1097.7	1161.2	1315.4	1557.3	1608.7	1593.6
30°	1336.5	1327.5	1306.3	1279.1	1245.8	1194.4	1224.7	1384.9	1663.1	1711.5	1678.2
32.5°	1502.9	1484.7	1490.8	1448.4	1378.9	1297.2	1291.2	1448.4	1747.8	1817.3	1790.1
35°	1714.5	1693.4	1663.1	1623.8	1557.3	1448.4	1415.2	1551.2	1889.9	1941.3	1941.3
37.5°	1992.7	2013.9	1977.6	1814.3	1741.7	1638.9	1569.4	1657.1	2013.9	2137.9	2107.6
40°	2277.0	2295.1	2228.6	2107.6	1950.4	1823.4	1781.1	1829.4	2201.4	2349.5	2292.1
42.5°	2506.8	2531.0	2506.8	2349.5	2225.6	2062.3	1986.7	2032.0	2443.3	2621.7	2546.1
45°	2748.7	2772.9	2745.7	2642.9	2521.9	2428.2	2237.7	2295.1	2697.3	2963.4	2878.7
47.5°	2930.1	2960.4	2912.0	2890.8	2794.0	2778.9	2455.4	2518.9	2963.4	3308.1	3202.3
50°	2972.5	3005.7	3048.1	3072.2	3039.0	3075.3	2748.7	2803.1	3241.6	3625.6	3522.8
52.5°	2872.7	2905.9	2999.7	3111.6	3265.8	3374.6	3045.0	3090.4	3531.9	3888.7	3834.3
55°	2579.4	2609.6	2800.1	2951.3	3320.2	3498.6	3329.3	3519.8	3740.5	4163.9	4030.8
57.5°	2086.5	2122.8	2373.7	2606.6	3138.8	3429.1	3498.6	3876.6	4085.2	4366.5	4212.2
60°	1481.7	1502.9	1720.6	2131.8	2636.8	3081.3	3465.3	4142.7	4357.4	4638.6	4557.0
62.5°	852.7	870.9	1097.7	1484.7	1989.7	2573.3	3317.2	4393.7	4650.7	4938.0	4892.6
65°	565.5	571.5	725.7	937.4	1294.2	1896.0	2942.2	4617.4	4941.0	5176.9	5125.4
67.5°	371.9	405.2	526.2	671.3	828.5	1049.3	2397.9	4711.2	5273.6	5509.5	5497.4
70°	266.1	278.2	378.0	517.1	622.9	589.7	1403.1	4049.0	5258.5	5600.2	5500.4
72.5°	157.2	169.3	251.0	387.1	489.9	375.0	656.2	2863.6	4357.4	4469.3	4442.1
75°	114.9	114.9	154.2	278.2	356.8	269.1	308.4	1811.3	2893.8	3141.8	3138.8
77.5°	81.6	84.7	105.8	166.3	275.2	196.6	169.3	1006.9	1581.5	1729.6	1648.0
80°	48.4	51.4	72.6	99.8	199.6	142.1	111.9	459.6	607.8	613.8	583.6
82.5°	36.3	36.3	48.4	69.5	139.1	96.8	69.5	175.4	196.6	178.4	151.2
85°	21.2	18.1	36.3	51.4	81.6	54.4	48.4	81.6	90.7	66.5	60.5
87.5°	6.0	6.0	15.1	18.1	36.3	30.2	21.2	30.2	42.3	24.2	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	928.3	919.3	904.1	898.1	876.9	867.8	861.8	846.7	849.7	840.6	840.6
5°	919.3	919.3	889.0	855.8	822.5	801.3	777.1	746.9	746.9	734.8	737.8
7.5°	952.5	928.3	889.0	828.5	774.1	725.7	704.6	674.3	656.2	647.1	647.1
10°	973.7	949.5	883.0	810.4	740.8	680.4	635.0	592.7	568.5	568.5	565.5
12.5°	1031.1	994.9	907.2	807.4	704.6	613.8	544.3	495.9	462.7	438.5	444.5
15°	1079.5	1040.2	919.3	783.2	641.1	514.1	429.4	338.7	293.3	269.1	260.1
17.5°	1155.1	1082.5	946.5	740.8	544.3	402.2	278.2	202.6	184.5	181.4	181.4
20°	1218.6	1133.9	949.5	659.2	447.5	257.0	178.4	166.3	157.2	154.2	151.2
22.5°	1306.3	1200.5	937.4	565.5	320.5	172.4	151.2	139.1	133.0	124.0	124.0
25°	1397.0	1288.2	913.2	477.8	196.6	148.2	133.0	121.0	108.9	102.8	105.8
27.5°	1493.8	1354.7	843.7	371.9	151.2	130.0	108.9	99.8	93.7	90.7	90.7
30°	1572.4	1397.0	740.8	248.0	136.1	114.9	96.8	87.7	81.6	78.6	78.6
32.5°	1629.9	1433.3	625.9	166.3	124.0	102.8	87.7	78.6	72.6	69.5	69.5
35°	1726.6	1460.5	520.1	142.1	111.9	90.7	75.6	69.5	63.5	63.5	63.5
37.5°	1874.8	1496.8	414.3	130.0	102.8	81.6	72.6	63.5	60.5	57.5	57.5
40°	2004.8	1542.2	296.3	117.9	93.7	75.6	63.5	57.5	54.4	51.4	51.4
42.5°	2192.3	1593.6	193.5	105.8	84.7	69.5	57.5	51.4	48.4	45.4	45.4
45°	2431.2	1678.2	151.2	93.7	75.6	63.5	54.4	48.4	42.3	42.3	39.3
47.5°	2685.2	1781.1	136.1	87.7	69.5	57.5	48.4	42.3	39.3	36.3	36.3
50°	2921.1	1880.8	127.0	81.6	63.5	54.4	45.4	39.3	33.3	30.2	30.2
52.5°	3132.7	1974.6	121.0	75.6	60.5	48.4	39.3	33.3	30.2	27.2	27.2
55°	3244.6	2016.9	117.9	72.6	54.4	45.4	36.3	30.2	27.2	24.2	24.2
57.5°	3420.0	2071.3	114.9	69.5	51.4	39.3	33.3	27.2	24.2	21.2	21.2
60°	3704.2	2249.8	111.9	66.5	48.4	39.3	30.2	24.2	18.1	15.1	15.1
62.5°	3940.1	2397.9	99.8	57.5	42.3	33.3	24.2	18.1	12.1	9.1	9.1
65°	4209.2	2467.5	87.7	51.4	36.3	27.2	18.1	12.1	9.1	3.0	3.0
67.5°	4502.5	2573.3	72.6	45.4	33.3	21.2	15.1	9.1	3.0	0.0	0.0
70°	4348.3	2440.3	60.5	39.3	30.2	18.1	12.1	6.0	0.0	0.0	0.0
72.5°	3407.9	1747.8	48.4	36.3	27.2	18.1	12.1	3.0	0.0	0.0	0.0
75°	2277.0	988.8	42.3	30.2	21.2	15.1	9.1	3.0	0.0	0.0	0.0
77.5°	1236.8	444.5	36.3	27.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0
80°	402.2	175.4	30.2	24.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0
82.5°	108.9	54.4	30.2	24.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0
85°	45.4	36.3	30.2	24.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0
87.5°	18.1	12.1	12.1	15.1	12.1	9.1	6.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	843.7	849.7	852.7	852.7	867.8	883.0	901.1	916.2	916.2	925.3	934.4
5°	740.8	746.9	756.0	783.2	813.4	846.7	879.9	904.1	937.4	952.5	961.6
7.5°	656.2	662.2	686.4	713.6	756.0	813.4	870.9	925.3	958.6	973.7	985.8
10°	568.5	577.6	604.8	653.2	707.6	777.1	843.7	937.4	991.8	1022.1	1034.2
12.5°	441.5	465.7	502.0	553.4	622.9	728.8	852.7	949.5	1043.2	1079.5	1103.7
15°	278.2	299.4	356.8	438.5	532.2	656.2	828.5	967.6	1097.7	1133.9	1173.3
17.5°	178.4	181.4	199.6	287.3	408.2	565.5	792.3	994.9	1158.1	1209.5	1270.0
20°	151.2	157.2	160.3	172.4	272.1	465.7	716.7	1028.1	1230.7	1300.3	1357.7
22.5°	127.0	130.0	136.1	145.1	163.3	338.7	613.8	1028.1	1294.2	1397.0	1463.5
25°	102.8	108.9	114.9	124.0	142.1	211.7	508.0	1010.0	1369.8	1496.8	1581.5
27.5°	90.7	90.7	96.8	105.8	121.0	148.2	402.2	955.5	1427.3	1557.3	1669.2
30°	78.6	81.6	84.7	93.7	108.9	130.0	278.2	867.8	1487.7	1675.2	1802.2
32.5°	69.5	69.5	75.6	81.6	96.8	117.9	178.4	734.8	1566.4	1765.9	1944.3
35°	63.5	63.5	66.5	72.6	87.7	105.8	139.1	622.9	1660.1	1938.3	2134.8
37.5°	57.5	57.5	60.5	66.5	78.6	93.7	127.0	535.2	1756.9	2110.7	2397.9
40°	51.4	51.4	54.4	60.5	69.5	84.7	114.9	432.4	1877.8	2364.7	2685.2
42.5°	45.4	45.4	48.4	54.4	63.5	75.6	99.8	323.6	2038.1	2639.8	3057.1
45°	39.3	39.3	42.3	48.4	54.4	69.5	90.7	248.0	2213.5	2945.2	3383.7
47.5°	33.3	36.3	39.3	45.4	51.4	63.5	81.6	217.7	2385.8	3268.8	3746.6
50°	30.2	30.2	33.3	39.3	48.4	57.5	75.6	214.7	2561.2	3516.8	4118.5
52.5°	27.2	27.2	30.2	36.3	45.4	54.4	72.6	220.7	2706.4	3746.6	4378.6
55°	24.2	24.2	27.2	30.2	39.3	51.4	66.5	226.8	2809.2	3979.4	4587.2
57.5°	21.2	21.2	24.2	30.2	36.3	45.4	60.5	232.8	2975.5	4209.2	4889.6
60°	15.1	15.1	21.2	27.2	33.3	39.3	57.5	238.9	3241.6	4526.7	5146.6
62.5°	9.1	9.1	12.1	21.2	27.2	36.3	51.4	226.8	3489.5	4934.9	5539.7
65°	3.0	6.0	9.1	12.1	21.2	30.2	42.3	205.6	3698.2	5343.2	5902.6
67.5°	0.0	0.0	3.0	9.1	18.1	24.2	36.3	151.2	3731.4	5527.6	6274.5
70°	0.0	0.0	3.0	9.1	15.1	24.2	33.3	84.7	3178.1	4938.0	5751.4
72.5°	0.0	0.0	0.0	6.0	15.1	21.2	30.2	63.5	2343.5	3722.4	4544.9
75°	0.0	0.0	0.0	3.0	12.1	18.1	27.2	48.4	1424.2	2482.6	2966.4
77.5°	0.0	0.0	0.0	3.0	9.1	18.1	27.2	42.3	502.0	1182.3	1394.0
80°	0.0	0.0	0.0	6.0	12.1	18.1	24.2	36.3	121.0	296.3	399.1
82.5°	0.0	0.0	0.0	3.0	9.1	15.1	21.2	30.2	48.4	87.7	139.1
85°	0.0	0.0	0.0	3.0	6.0	15.1	21.2	27.2	33.3	42.3	60.5
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	9.1	12.1	12.1	12.1	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3	922.3
2.5°	931.3	943.4	949.5	961.6	967.6	964.6	961.6	970.7	964.6	955.5
5°	964.6	964.6	973.7	976.7	976.7	967.6	973.7	970.7	964.6	964.6
7.5°	1000.9	1016.0	1016.0	997.9	994.9	988.8	988.8	964.6	955.5	964.6
10°	1037.2	1049.3	1052.3	1031.1	1003.9	991.8	976.7	946.5	931.3	937.4
12.5°	1112.8	1112.8	1079.5	1055.3	1019.0	976.7	940.4	898.1	876.9	883.0
15°	1167.2	1179.3	1133.9	1079.5	1016.0	937.4	898.1	864.8	852.7	843.7
17.5°	1273.0	1248.9	1176.3	1097.7	1006.9	925.3	898.1	867.8	858.8	858.8
20°	1363.8	1351.7	1242.8	1100.7	1003.9	949.5	931.3	916.2	913.2	904.1
22.5°	1487.7	1433.3	1294.2	1133.9	1037.2	988.8	982.8	997.9	988.8	982.8
25°	1581.5	1536.1	1333.5	1182.3	1088.6	1073.5	1082.5	1097.7	1073.5	1064.4
27.5°	1708.5	1623.8	1409.1	1245.8	1158.1	1173.3	1203.5	1206.5	1191.4	1200.5
30°	1826.4	1735.7	1466.6	1318.4	1276.1	1291.2	1336.5	1369.8	1348.6	1336.5
32.5°	1995.7	1856.7	1581.5	1439.4	1424.2	1463.5	1515.0	1536.1	1508.9	1502.9
35°	2174.2	1995.7	1699.4	1575.4	1602.6	1657.1	1702.4	1738.7	1696.4	1714.5
37.5°	2452.4	2219.5	1899.0	1790.1	1802.2	1823.4	1908.1	2007.8	2029.0	1992.7
40°	2742.6	2461.4	2083.4	1998.8	2026.0	2083.4	2183.2	2277.0	2325.4	2277.0
42.5°	3078.3	2694.3	2367.7	2267.9	2295.1	2376.8	2509.8	2585.4	2579.4	2506.8
45°	3492.6	3017.8	2633.8	2509.8	2609.6	2682.2	2815.2	2824.3	2766.8	2748.7
47.5°	3810.1	3290.0	2921.1	2842.4	2978.5	2981.5	3011.8	3014.8	2951.3	2930.1
50°	4160.8	3604.4	3241.6	3126.7	3356.5	3250.7	3169.0	3114.6	3017.8	2972.5
52.5°	4505.6	3828.2	3537.9	3420.0	3658.9	3377.7	3229.5	3063.2	2921.1	2872.7
55°	4690.0	4197.1	3970.3	3695.2	3725.4	3413.9	3042.0	2833.4	2591.5	2579.4
57.5°	4907.7	4445.1	4336.2	3882.6	3613.5	3159.9	2651.9	2376.8	2116.7	2086.5
60°	5164.8	4838.2	4723.3	3852.4	3217.4	2655.0	2101.6	1747.8	1502.9	1481.7
62.5°	5452.0	5303.9	4962.2	3556.1	2555.2	1868.7	1388.0	1091.6	864.8	852.7
65°	5905.6	5693.9	5089.2	2993.6	1690.3	1197.4	922.3	707.6	571.5	565.5
67.5°	6189.8	5842.1	4804.9	2134.8	937.4	792.3	647.1	514.1	396.1	371.9
70°	5787.7	5361.3	3801.0	1221.6	544.3	601.7	498.9	344.7	272.1	266.1
72.5°	4623.5	3979.4	2558.2	574.5	338.7	471.7	362.9	232.8	163.3	157.2
75°	3153.9	2503.8	1605.7	266.1	238.9	344.7	266.1	136.1	114.9	114.9
77.5°	1409.1	1276.1	822.5	163.3	178.4	263.1	154.2	93.7	84.7	81.6
80°	429.4	450.6	335.6	111.9	133.0	199.6	93.7	63.5	51.4	48.4
82.5°	145.1	169.3	151.2	66.5	90.7	142.1	63.5	42.3	36.3	36.3
85°	69.5	84.7	75.6	42.3	48.4	69.5	51.4	33.3	21.2	21.2
87.5°	27.2	39.3	27.2	18.1	27.2	36.3	21.2	15.1	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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